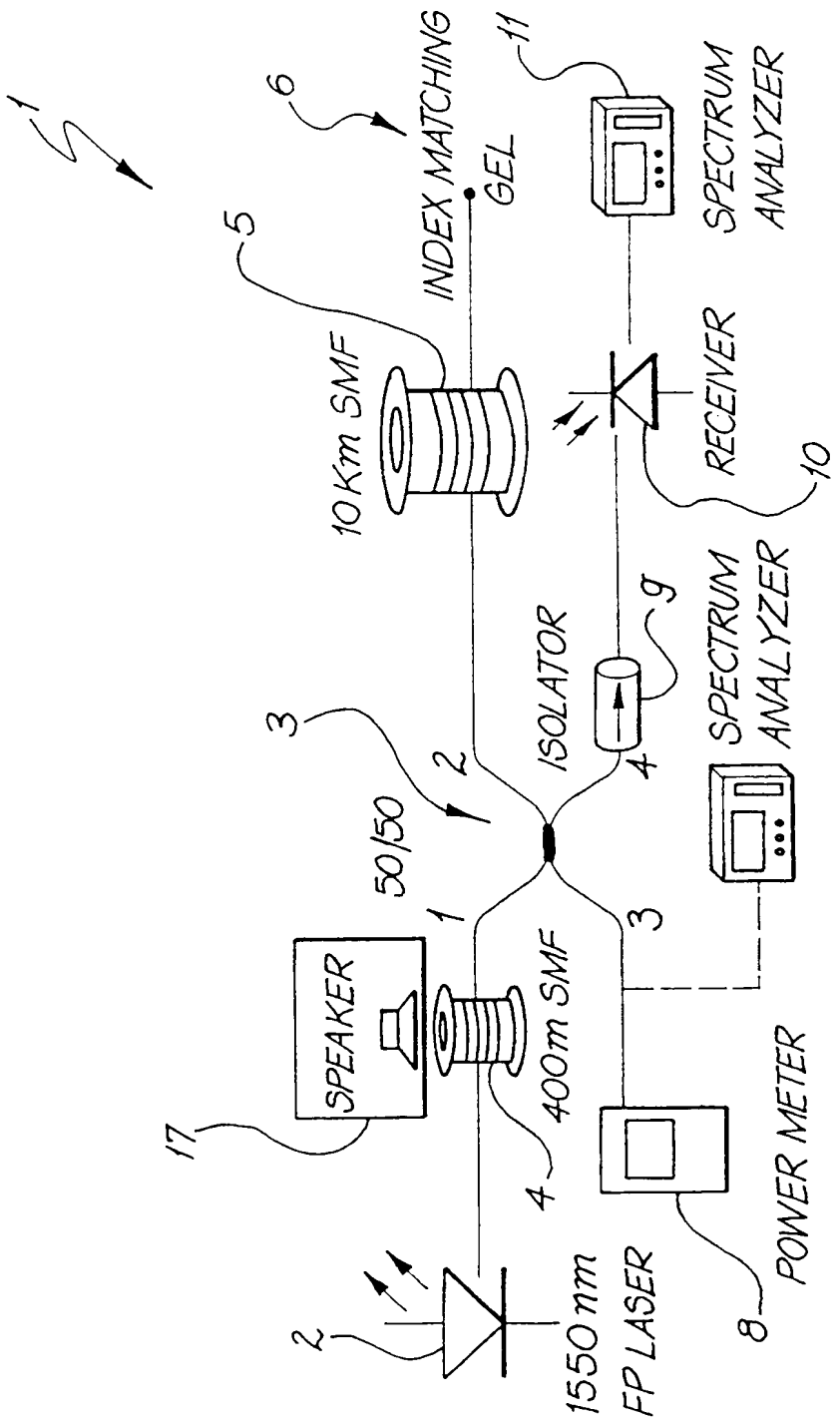
1
6
INDEX MATCHING GEL
11
SPECTRUM ANALYZER
5
10 Km SMF
RECEIVER
10
3
50/50
2
ISOLATOR
9
4
SPECTRUM ANALYZER
1
3
SPEAKER
400m SMF
17
4
POWER METER
2
1550 nm FP LASER
8

FIG. 1

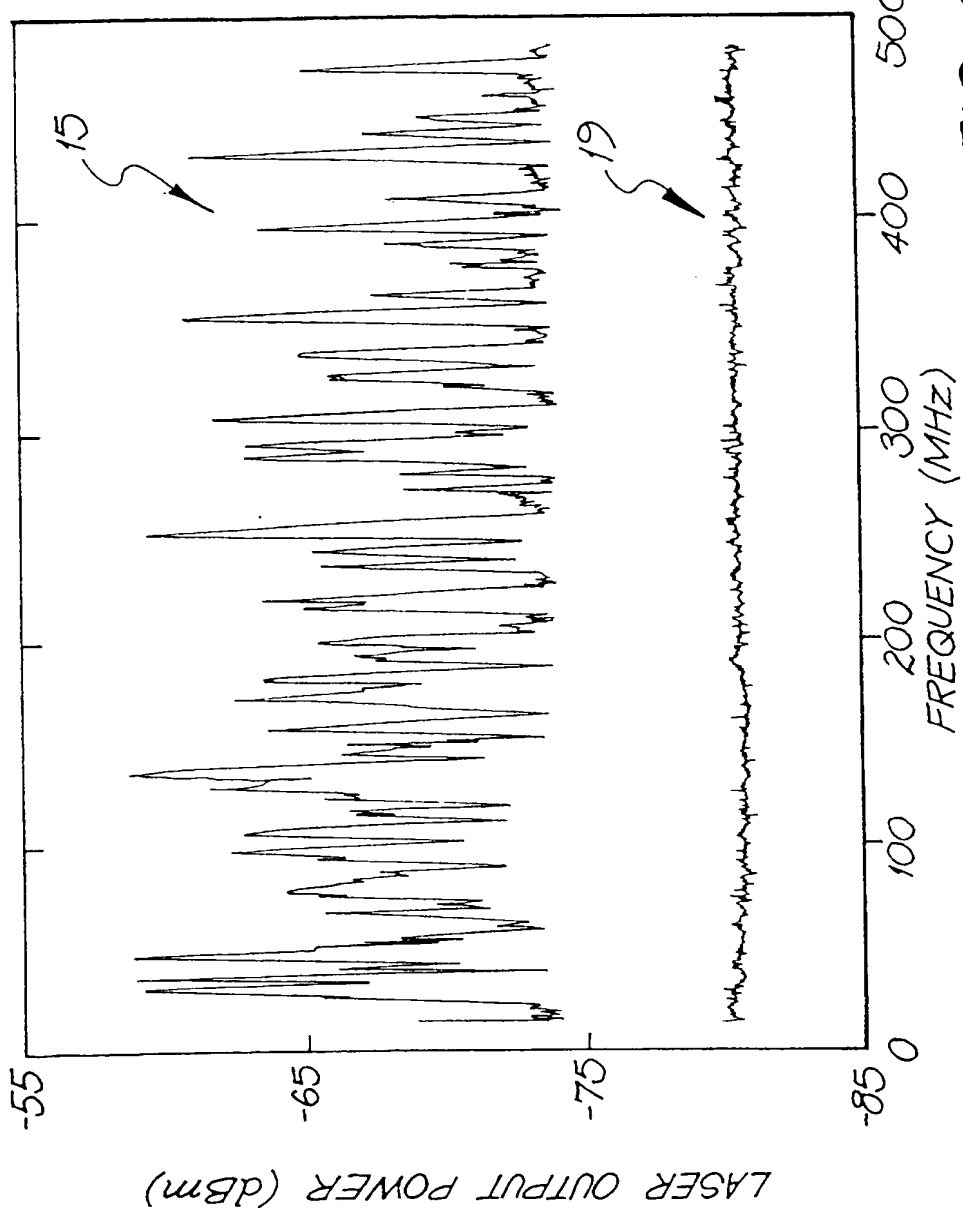
15
19
-55
-65
-75
-85
0
100
200
300
400
500
FREQUENCY (MHz)
LASER OUTPUT POWER (dBm)

FIG. 2

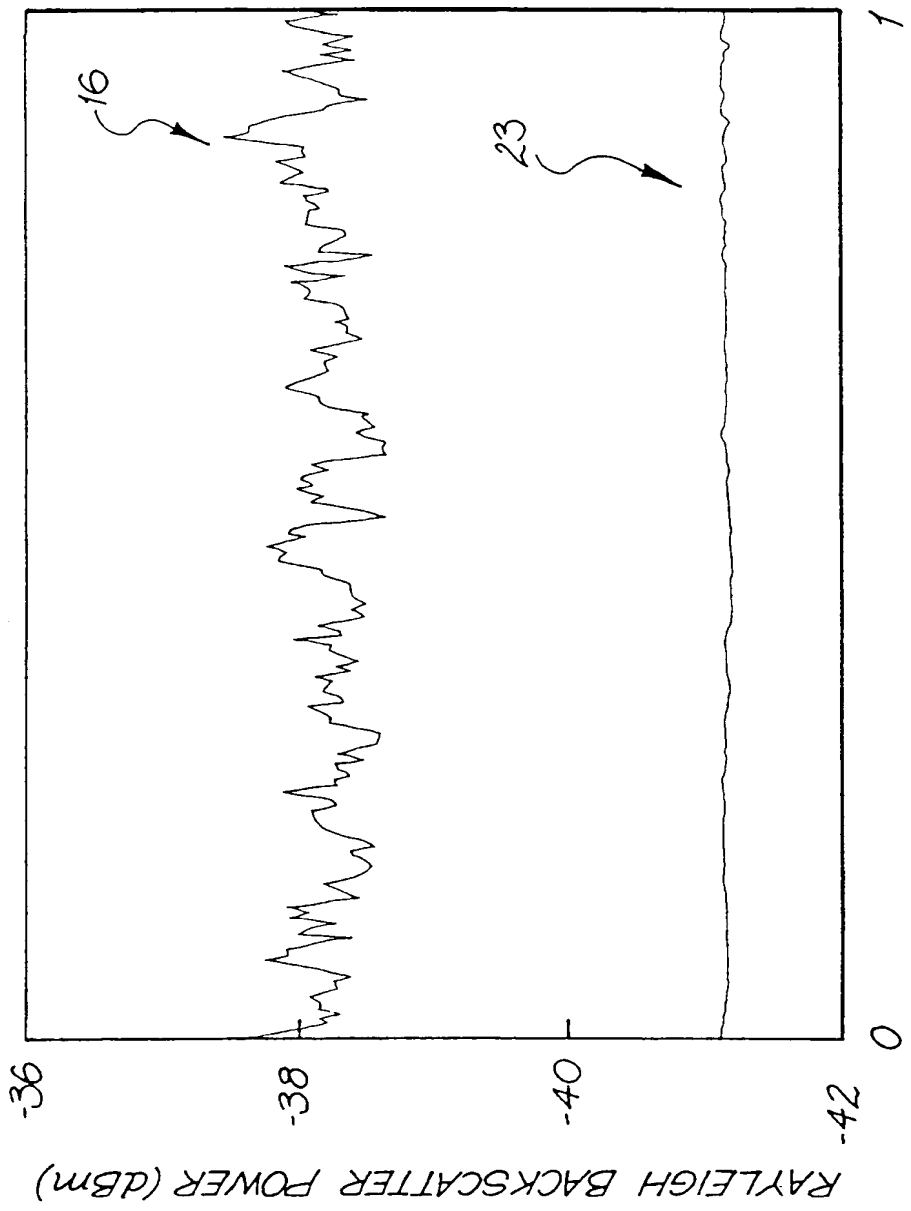
16
23
1
0
TIME (MINUTE)
-36
-38
-40
-42
RAYLEIGH BACKSCATTER POWER (dBm)

FIG. 3

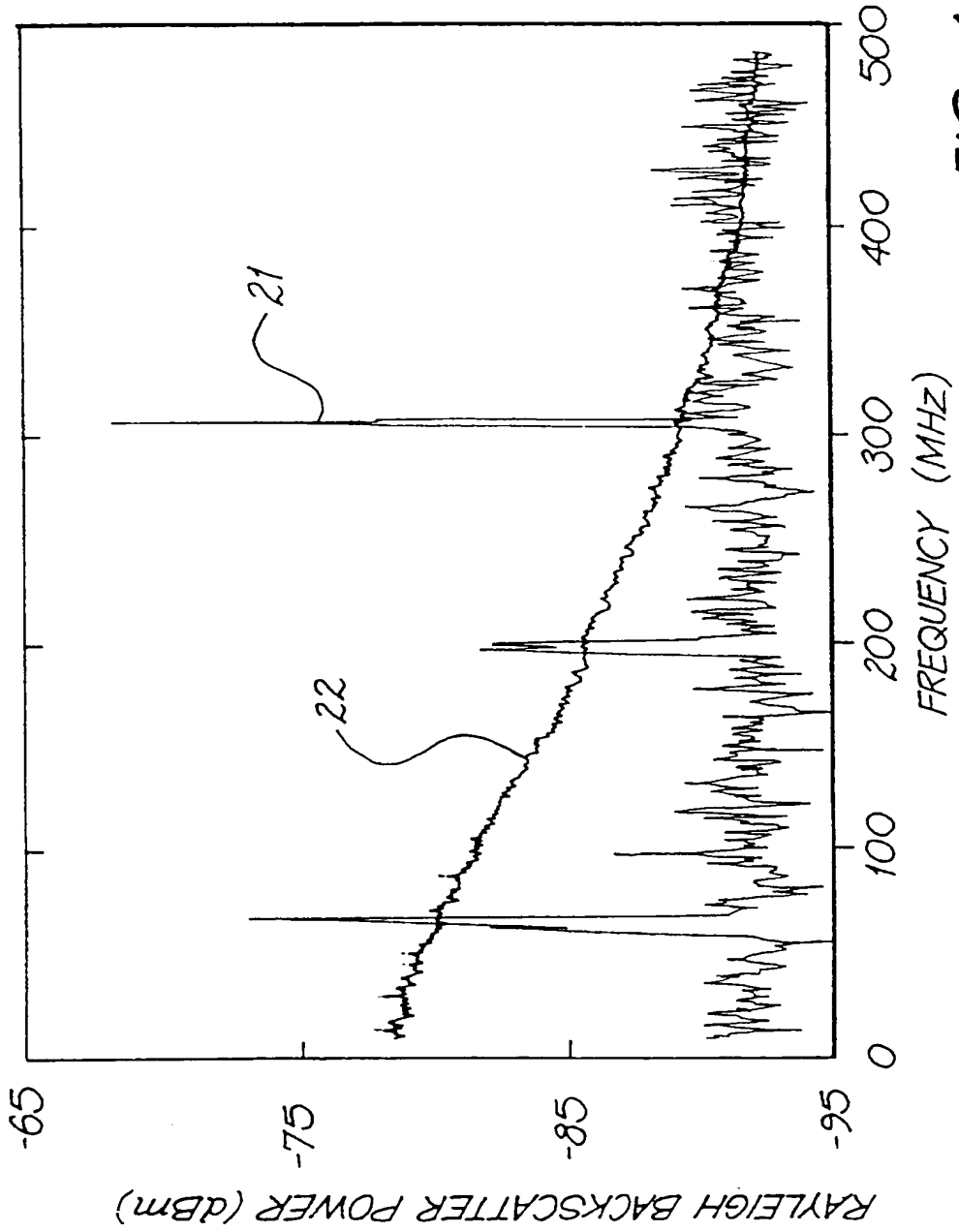
21
22
500
400
300
200
100
0
FREQUENCY (MHz)
-65
-75
-85
-95
RAYLEIGH BACKSCATTER POWER (dBm)

FIG. 4

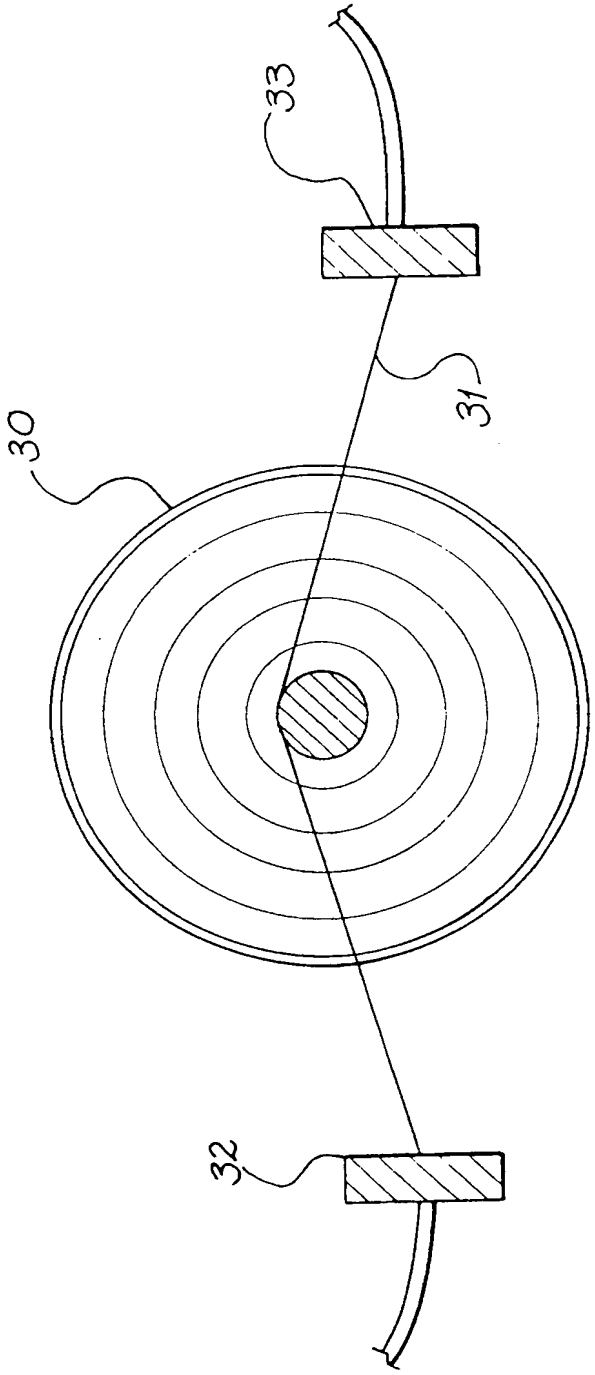

FIG. 5

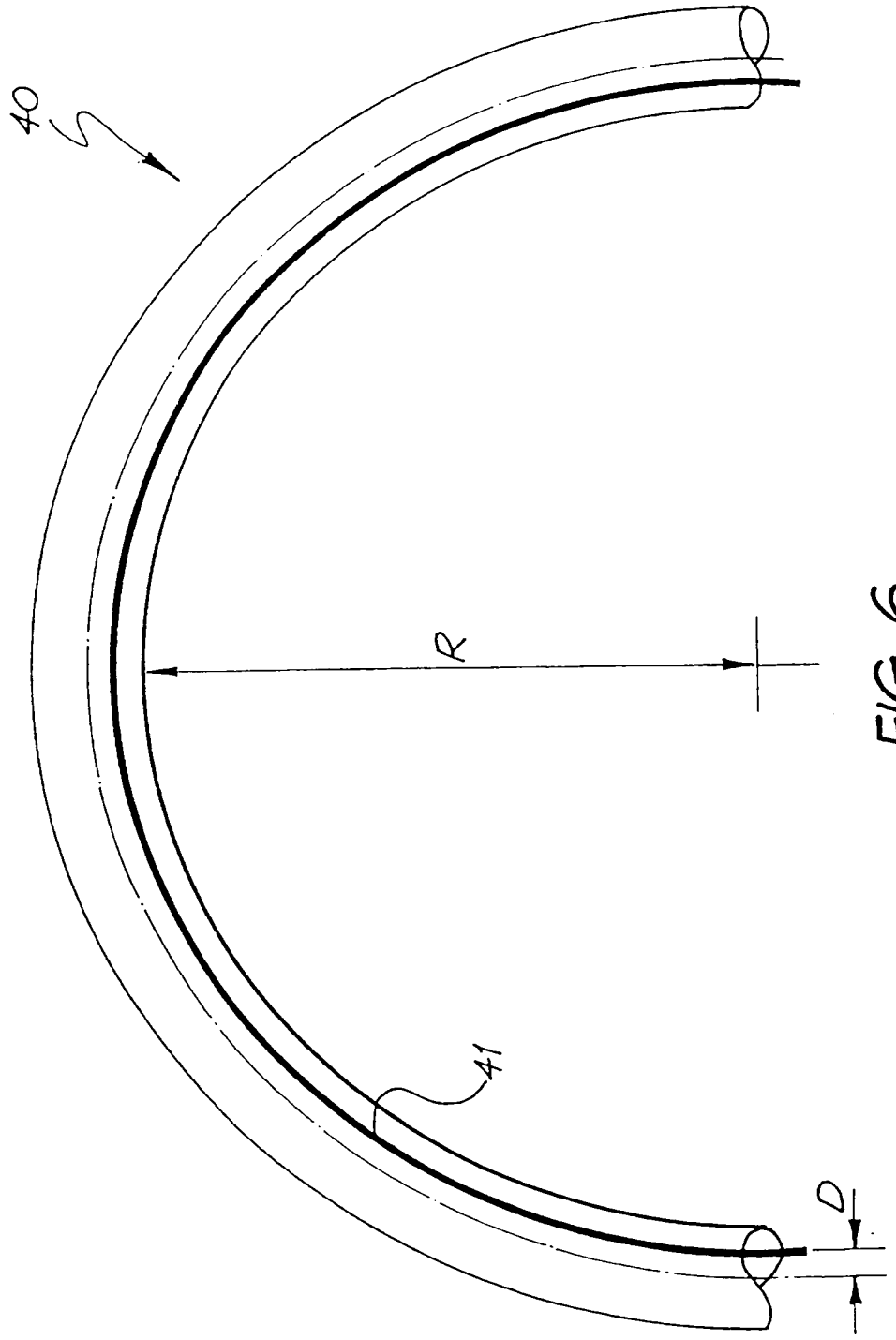

FIG. 6